

FIGURE 1A

Amino acid sequence of human CCR5 [SEQ ID NO: 1]:

1 MDYQVSSPIY DINYYTSEPC QKINVKQIAA RLLPPLYSLV FIFGFVGNML VILILINCKR
N-Terminus Transmembrane Domain 1

61 LKSMTDIYLL NLAISDLFFL LTVPFWAHYA AAQWDFGNTM CQLLTGLYFI GFFSGIFFII
LOOP 1 Transmembrane Domain 2 Loop 2 Transmembrane Domain 3

121 LLTIDRYLAV VHAVFALKAR TVTFGVVTSV ITWVVAVFAS LPGIIFTRSQ KEGLHYTCSS
Loop 3 Transmembrane Domain 4 Loop 4

181 HFPYSQYQFW KNFQTLKIVI LGLVLPLLVM VICYSGILKT LLRCRNEKKR HRAVRLIFTI
Transmembrane Domain 5 Loop 5

241 MIVYFLFWAP YNIVLLLNTF QEFFGLNNCS SSNRLDQAMQ VTETLGMTHC CINPIIYAFV
Transmembrane Domain 6 Loop 6 Transmembrane Domain 7

301 GEKFRNYLLV FFQKHIAKRF CKCCSIFQQE APERASSVYT RSTGEQEISV GL
C-Terminus

FIGURE 1B

Peptide fragments derived from human CCR5 that are used as target peptides:

N-terminal fragment [SEQ ID NO: 8]:

MDYQVSSPIYDINYYTSEPCQKINVKQIAARLLPPL

Loop 4 fragment [SEQ ID NO: 9]:

TRSQKEGLHYTCSSHFPYSQYQFWKNFQTLKI

Loop 6 fragment [SEQ ID NO: 3]:

EFFGLNNCSSSNRLDQAMQVTETLGMTHC

Figure 1 displays 16 small plots arranged in a 4x4 grid, showing the spatial distribution of the number of individuals per 100 m² for various species. The species names are listed in the caption. Each plot shows a map of the study area with points representing individual locations. The species are: 1. *A. albopictus*, 2. *A. albopictus*, 3. *A. albopictus*, 4. *A. albopictus*, 5. *A. albopictus*, 6. *A. albopictus*, 7. *A. albopictus*, 8. *A. albopictus*, 9. *A. albopictus*, 10. *A. albopictus*, 11. *A. albopictus*, 12. *A. albopictus*, 13. *A. albopictus*, 14. *A. albopictus*, 15. *A. albopictus*, 16. *A. albopictus*.

Figure 1 displays 16 small plots arranged in a 4x4 grid, showing the spatial distribution of the number of individuals per 100 m² for various species. The species names are listed in the caption. Each plot shows a map of the study area with points representing individual locations. The species are: 1. *A. albopictus*, 2. *A. albopictus*, 3. *A. albopictus*, 4. *A. albopictus*, 5. *A. albopictus*, 6. *A. albopictus*, 7. *A. albopictus*, 8. *A. albopictus*, 9. *A. albopictus*, 10. *A. albopictus*, 11. *A. albopictus*, 12. *A. albopictus*, 13. *A. albopictus*, 14. *A. albopictus*, 15. *A. albopictus*, 16. *A. albopictus*.

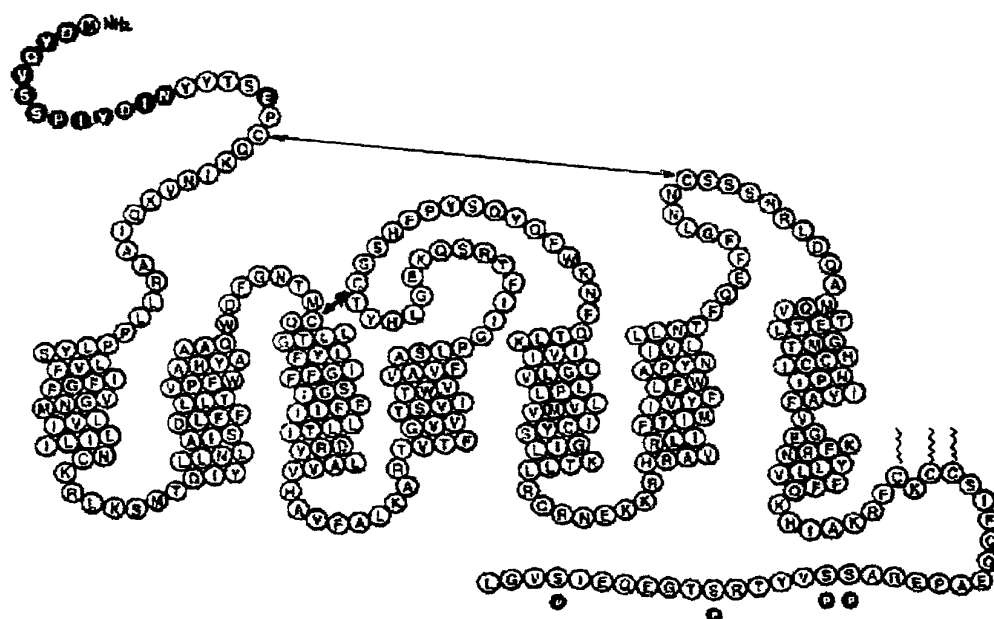


FIGURE 2A

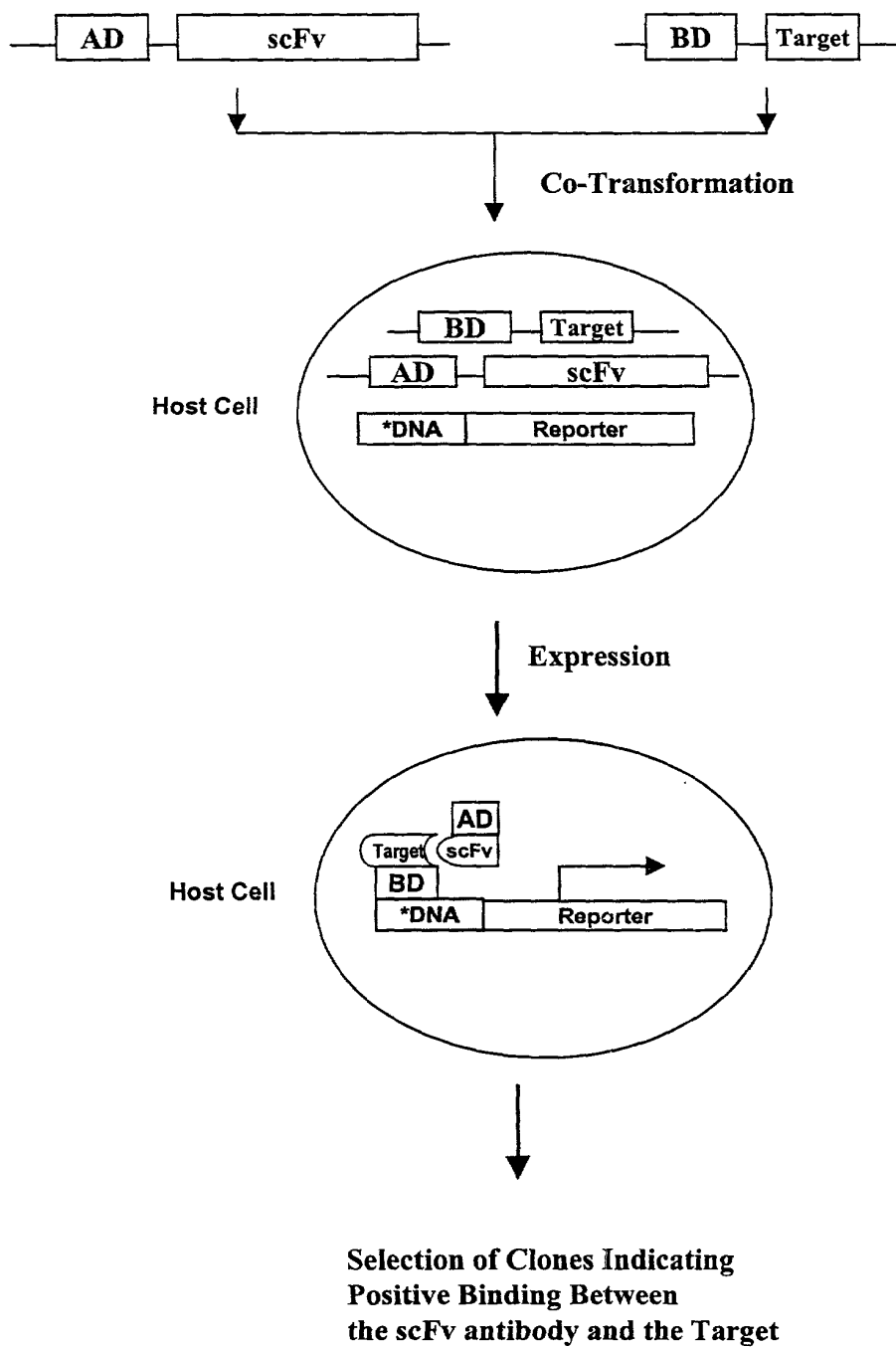


FIGURE 2B

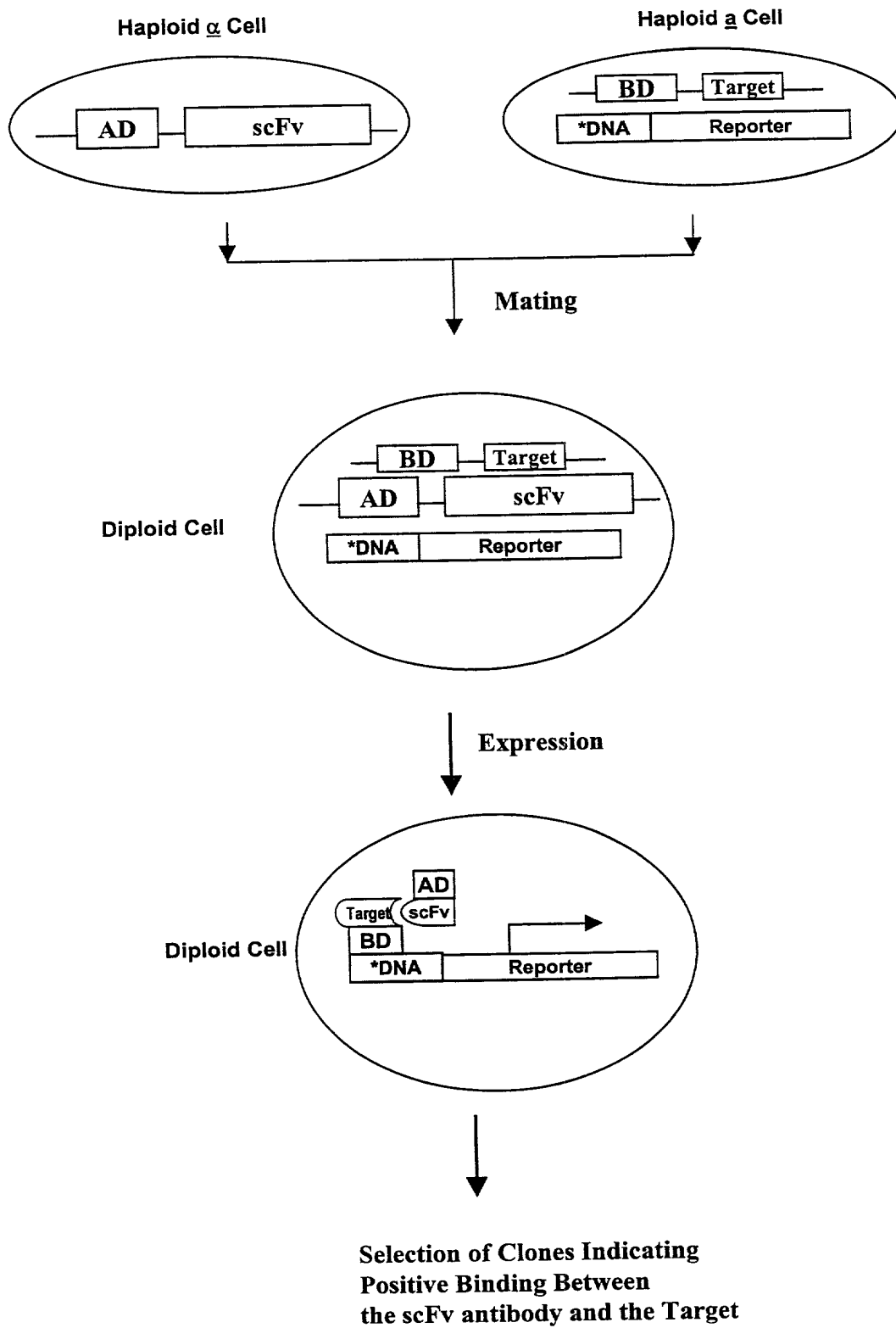


FIGURE 3

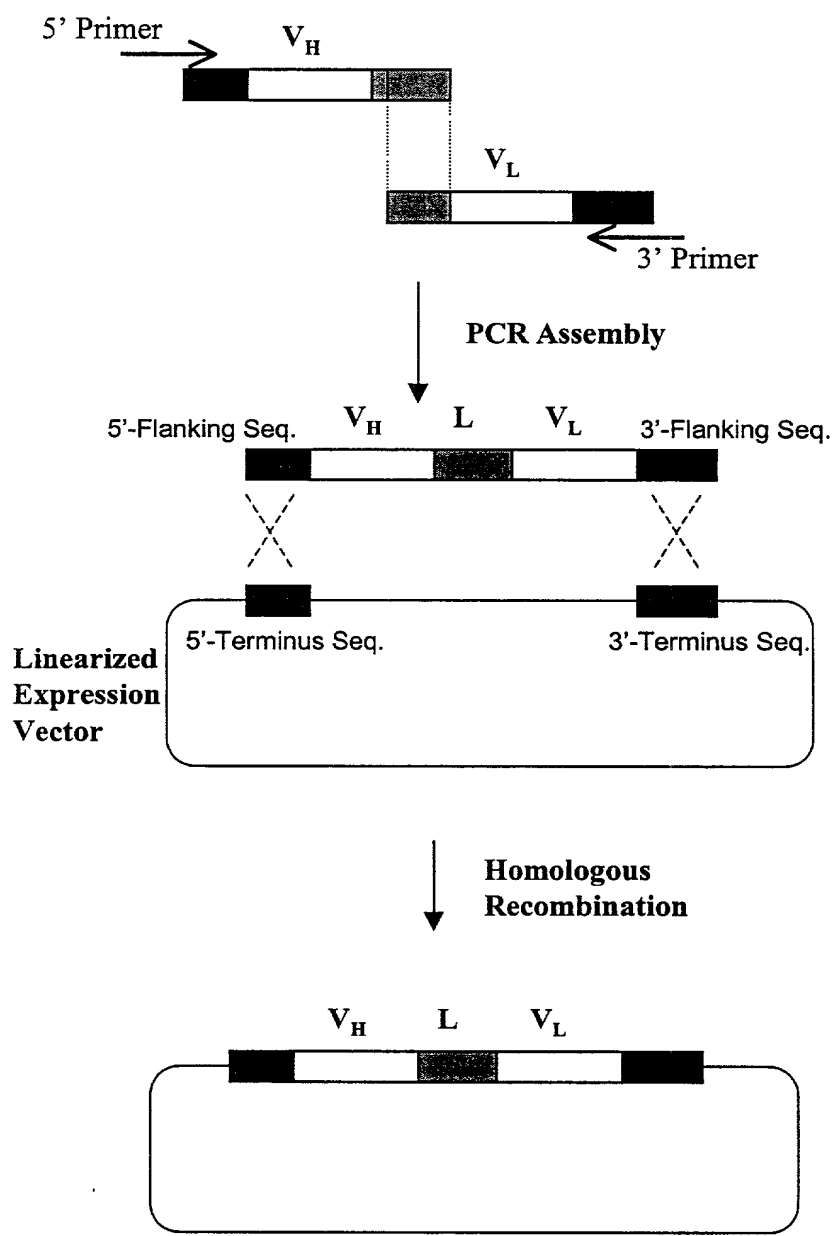


FIGURE 4

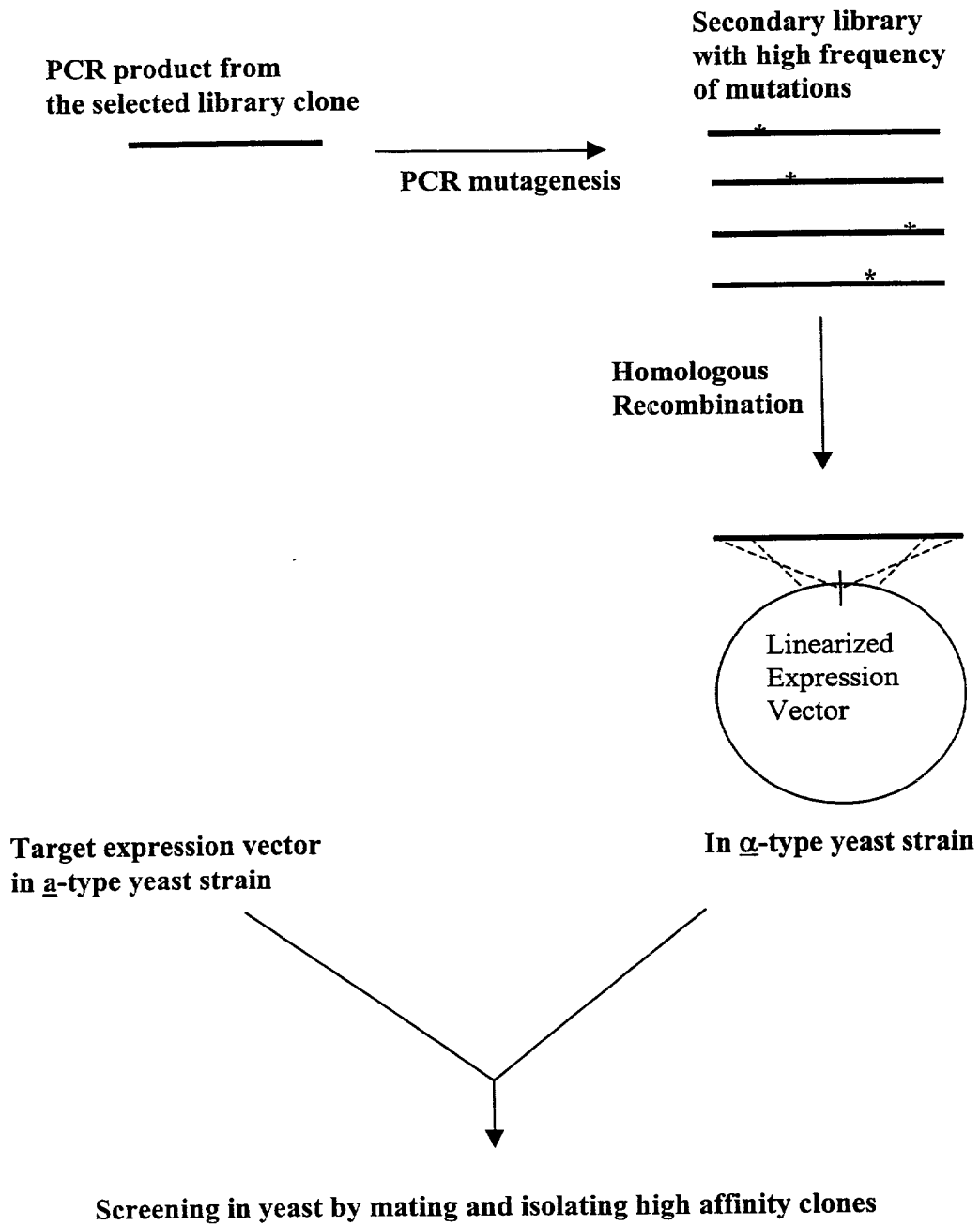


FIGURE 5

DNA sequence of clone 15.186.35 scFv against N-terminus fragment of human CCR5 [SEQ ID NO: 16]:

CAGGTTACCTTGAAGGAGTCTGGTCCTACGTTGGTGAACCCACACAGACCCCTCACGCTGACCTGCACCTTGTCTGGGTT
CTCACTCAGCACTAGTGGAGTGAGTGTGGGCTGGATCCGTCAGCCCCCAGGAAAGGCCCTTGAGTGGCTTGCAAGCATAA
ATTGGAATGATGATAAGTGCTACAGCCCATCTCTGAAAAGCAGGCTCACCATCACCAAGgACACCCCCaAAAACCAGGTG
GTCCTTGCAATGAGCAACATGGACCCTGCGGACACAGCCACATATTCCTGTGCACTCGATATGCCCCCCCATGATAGTGG
CCCGCAATCTTTTGTATGCTTCTGATGTCTGGGGCCAGGGACAATGGTCACCGTCTCTTCAGGCGGTGGTGGATCAGGCG
GCGGAGGATCTGGCGGAGGTGGCAGCGGTGGTGGAGGCAGTTCCTATGAGCTGATGCAGCTACCCCTCAGTGTCCGTGTCC
CCAGGACAGACAGCCAGCATCACCTGCTCTGGAGATAAATTTGGGGGATAAATATGCCTGCTGGTATCAACAGAAGCCAGG
CCGGTCCCCTGTGCTGGTCATTTATGGAGATAACAAGCGGCCCTCAGGGATCCCTGAGCGATTCTCTGGCTCCAACCTCTG
GGAACACAGCCACTCTGACCATCAGCGGGACCCAGGCTATGGATGAGGCTGACTATTACTGTGAGGCGTGGGACACCAGC
ACTGCTGTCTTCGGAAGTGGGACCAAGCTCACCGTCCTA

Amino acid sequence of clone 15.186.35 scFv against N-terminus fragment of human CCR5 [SEQ ID NO: 17]:

QVTLKESGPTLVKPTQTLTLTCTLSGFSLSSTSGVSVGWIRQPPGKALEWLASINWNDDKCYSPSLKSRLTITKDTPKNQV
VLAMSNMDPADTATYSCALDMPPHDSGPQSFSDASDVWGPMTMTVTVSSGGGGSGGGSGGGSGGGSSYELMQLPSVSVS
PGQTASITCSGDNLDKYACWYQQKPRSPVLVIYGDNKRPSGIPERFSGSNSGNTATLTISGTQAMDEADYYCQAWDTS
TAVFGTGTKLTVL

DNA sequence of clone 15.150.11 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 18]:

CAGGTGCAGCTGCAGGAGTCGGGCCCAGGACTGGTGAAGCCTTCGGAGACCCTGTCCCTCACTTGCACTGTCTCTGGTGG
CTCCATCGGTTCATGACTACTGGAGCTGGATACGGCAGCCCCCAGGGGAGGGACTGGAGTGGATTGGTTTCATCTTCTTCG
ATGGGAGCACCAACTACAACCCCTCCCTCAACGGTCGAGTCACCATCTCACTCGACACGTCGAAGAATCAGCTCTCCCTG
AGGCTGACCTCTGTGACCGCTGCGGACACGGCCGTGATTTCTGTGCGAGACTAAAGGGGGCGTGGTTATTGTCTGAACC
CCCTTACTTCAGCTCCGACGGCATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCCCTCAGGCGGTGGTGGATCAG
GCGGCGGAGGATCTGGCGGAGGTGGCAGCGGTGGTGGAGGCAGTAATTTTATGCTGACTCAGCCCCCTCAGCGTCTGGG
ACCCCCGGGCAGAGGGTCAGCATCTCTTGTCTGGGAGCAGCTCCGACATCGGAAGTAATACTGTAAACTGGTACCAGCA
ACTCCCAGGAACGGCCCCCAAACCTCCTCATCTATAGTAATAATCAGCGGCCCTCAGGGGTCCCTGACCGATTCTCTGGCT
TCAAGTCTGGCACCTCAGCCTCCCTGGTCATCAGTGGCCTCCAGTCTGAGGATGAGGCTGATTATTATTGTGCAGCATGG
GATGAGAGCCTGAATGGTGTGGTGTTCGGCGGAGGACCAAG

Amino acid sequence of clone 15.150.11 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 19]:

QVQLQESGPGLVKPSSETLSLTCTVSGGSIGHDYWSWIRQPPGEGLEWIGFIFFDGSTNYNPSLNGRVTISLDTSKNQLSL
RLTSVTAADTAVYFCARLKGAWLLSEPPYFSSDGMVDVWGQGTIVTVPSGGGGSGGGSGGGSGGGSNFMLTQPPSASG
TPGQRVISCSGSSSDIGSNVTWNWYQLPGTAPKLLIYSNNQRPSGVPDRFSGFKSGTSASLVISGLQSEADYYCAAW
DESLNGVVFGGGPR

FIGURE 5 (cont.)

DNA sequence of clone 15.150.12 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 20]:

CAGGTGCAGCTACAGCAGTGGGGCGCAGGACTGTTGAAGTCTTGGGGAACCCGTGCCCTCACCTGCGCTGTCTCTGGTG
GTCGTTTAGTGGTtATTATTGGAGCTGGATCCGCCAGCCCCAGGgAAGGGGCTGGAGTGGATTGGGGAGATCAATCATC
GTGGAAGCACTACCTACAACCCGTCCCTCGACGGTCGAGTCACCATATCATTAGACACATCTACCAACCAGATCTCCCTT
AAACTGACCTCTATGACCGCCGCGGACACGGCCGTGTATTACTGTGCGAGGACAGTGGCTGGTACTAGTGACTACTGGGG
CCAGGGAACCCGTGGTCACCGTTTCCTCAGGGAGTGCATCCGCCCAACGGGCGGTGGTGGATCAGGCGGCGGAGGATCTG
GCGGAGGTGGCAGCGGTGGTGGAGGCAGTAAAACGACACTCACGCAGTCTCCAGCATTATGTCAGCGACTCCAGGAGAC
AAAGTCAGCATCTCCTGCAAAGCCAGCCGAGACGTTGATGATGATGTGAAGTGGTACCAACAGAGACCAGGAGAAGCTCc
TATTTTcATTATTGAAGATGCTACTACTCTCGTTCcTGGAAATCTCACCTCGATTcAGTGGCAGCGGGTATGGAACCGATT
TTACCCTCACAATTAATAACATCGATTCTGAGGATGCTGCATATTATTTCTGTCTACAACATGATAATTTCCCGCTCACC
TTCGGCGGAGGGACCAAGGTGGAGATCAAA

Amino acid sequence of clone 15.150.12 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 21]:

QVQLQQWGAGLLKSWGTLTLTCAVSGASFSGYYWSWIROPFGKLEWIGEINHRGSTTYNPSLDGRVTISLDTSTNQISL
KLTSMTAADTAVYYCARTVAGTSDYWGGQTLVTVSSGSASAPTGGGGSGGGSGGGSGGGGSKTTLTQSPAFMSATPGD
KVISCKASRDVDDVDNWWYQRPGEAPIFIIEDATTLVPGISPRFSGSGYGTDFTLTINNIDSEDAAYYFCLQHDNFPLT
FGGGTKVEIK

DNA sequence of clone 15.150.24 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 22]:

CAGGTCACCTTGAAGGAGTCTGGTCCTACGCTGGTGAAACCCACACAGACCCTCACGCTGACCTGCACCTTCTCTGGGTT
CTCACTCAGAACTACTGGAGAGGGTGTGGGCTGGGTCCGTACAGCCCCAGGAAAGGCCCTGGAATGGCTTGCACTCATTT
ATTGGGATGATGATAAGCGCTACAGCCCATCTCTGAAGAGCAGGCTCACCATCACCAGGACACCTCCAAAAAGCAGGTG
GTCCTTACAATGACCAACGTGGACCCAGCGGACACAGCCACCTATTACTGTACACACGAGCAATACTATTATGATACTAG
TGGTCAGCCATACTACTTTGACTTCTGGGGCCAGGGCACCCCTGGTCACCGTCTCCTCAGGCGGTGGTGGATCAGGCGGCG
GAGGATCTGGCGGAGGTGGCAGCGGTGGTGGAGGCAGTAACATCCAGGTGACCCAGTCTCCATCCTCCCTGTCTGCATCT
GTAGGAGACAGAGTCACCATGACTTGCCGGGCGAGTCAGGACATTAGGAAGAATTTAAATTGGTATCAGCAAAAACCAGG
GAAAGCCCCTAAGGTCCTGATCTACGATGCATCCGATTTGGAACAGGGATCCCATCAAGGTTcAGTGGAAAGTGGATCTG
GGACAGATTTTATCCTCACCATCAGCAGCCTGCAGCCTGAAGATATTGCAACATACTACTGTCAACAGTCTGATTATTTA
CCGCTCACTTTCGGCGGAGGGACCAAAGTGGATATCAAA

Amino acid sequence of clone 15.150.24 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 23]:

QVTLKESGPTLVKPTQTLTLTCTFSGFSLRTTGEVGVWVRQPPGKALEWLALIYWDDDKRYSPSLKSRLLTITKDTSKKQV
VLTMTNVDPADTATYYCTHEQYYDTSGQPYFDFWGGQTLVTVSSGGGGSGGGSGGGSGGGGSGGGGNIQVTQSPSSLSAS
VGDRVMTTCRASQDIRKNLWYQQKPGKAPKVLIIYDASDLETGIPSRFSGSGSGTDFILTISLQPEDIATYYCQQSDYL
PLTFGGGTKVDIK

FIGURE 6

DNA sequence of a variant of clone 15.186.35 scFv against N-terminus fragment of human CCR5 [SEQ ID NO: 24]:

CAGGTCACCTTGAAGGAGTCTGGTCCTACGTTGGTGAAACCCACACAGACCCTCACGCTGACCTGCACCTTGTCTGGGTT
CTCACTCAGCACTAGTGGAGTGAGTGTGGGCTGGATCCGTCAGCCCCCAGGAAAGGCCCTTGAGTGGCTTGCAAGCATAA
ATTGGAATGATGATAAGTGCTACAGCCCATCTCTGAAAAGCAGGCTCACCATCACCAAGgACACCCCCaAAAACCAGGTG
GTCCTTGCAATGAGCAACATGGACCCTGCGGACACAGCCACATATTCTGTGCACTCGATATGCCCCCATGATAGTGG
CCCGCAATCTTTTGATGCTTCTGATGTCTGGGGCCCAGGGACAATGGTCACCGTCTCTTCAGGCGGTGGTGGATCAGGCG
GCGGAGGATCTGGCGGAGGTGGCAGCGGTGGTGGAGGCAGTTCCTATGAGCTGATGCAGCTACCCCTCAGTGTCCGTGTCC
CCAGGACAGACAGCCAGCATCACCTGCTCTGGAGATAATTTGGGGGATAAAATATGCCTGCTGGTATCAACAGAAGCCAGG
CCGGTCCCCTGTGCTGGTCATTTATGGAGATAACAAGCGGCCCTCAGGGATCCCTGAGCGATTCTCTGGCTCCAACCTCTG
GGAACACAGCCACTCTGACCATCAGCGGGACCCAGGCTATGGATGAGGCTGACTATTACTGTTCAGGCGTGGGACACCAGC
ACTGCTGTCTTCGGAACCTGGGACCAAGCTCACCGTCCTA

Amino acid sequence of a variant of clone 15.186.35 scFv against N-terminus fragment of human CCR5 [SEQ ID NO: 25]:

QVTLKESGPTLVKPTQTLTLTCTLSGFSLSSTSGVSVGWIRQPPGKALEWLASINWNDDKCYSPLKSRLTITKDTPKNQV
VLAMSNMDPADTATYSCALDMPHDSGPQSFDASDVWVGPTMTVTSSGGGSGGGSGGGSGGGSSYELMQLPSVSVS
PGQTASITCSGDNLDGKYACWYQKPKRSPVLVIYDGNKRPSGIPERFSGSNSGNTATLTISGTQAMDEADYYCQAWDTS
TAVFGTGKLTVL

DNA sequence of a variant of clone 15.150.11 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 26]:

CAGGTGCAGCTGCAGGAGTCGGGCCAGGACTGGTGAAGCCTTCGGAGACCCTGTCCCTCACTTGCACTGTCTCTGGTGG
CTCCATCGGTCATGACTACTGGAGCTGGATACGGCAGCCCCCAGGGGAGGACTGGAGTGGATTGGTTTCATCTTCTTCG
ATGGGAGCACCAACTACAACCCCTCCCTCAACGGTCGAGtCACCATCTCACTCGACACGTCGAAGAATCAGCTCTCCCTG
AGGCTGACCTCTGTGACCGCTGCGGACACGGCCGTGTATTTCTGTGCGAGACTAAAGGGGGCGTGGTTATTGTCTGAACC
CCCTTACTTCAGCTCCGACGGCATGGACGTCTGGGGCCAAGGGACCACGGTCACCGTCTCCTCAGGCGGTGGTGGATCAG
GCGGCGGAGGATCTGGCGGAGGTGGCAGCGGTGGTGGAGGCAGTAATTTTATGCTGACTCAGCCCCCTCAGCGTCTGGG
ACCCCCGGGCAGAGGGTCAGCATCTCTTGTTCTGGGAGCAGCTCCGACATCGGAAGTAATACTGTAACTGGTACCAGCA
ACTCCCAGGAACGGCCCCCAAACCTCCTCATCTATAGTAATAATCAGCGGCCCTCAGGGGTCCCTGACCGATTCTCTGGCT
TCAAGTCTGGCACCTCAGCCTCCCTGGTCATCAGTGGCCTCCAGTCTGAGGATGAGGCTGATTATTATTGTGCAGCATGG
GATGAGAGCCTGAATGGTGTGGTGTTCGGCGGAGGAACCAAGGTGACCGTCCTA

Amino acid sequence of a variant of clone 15.150.11 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 27]:

QVQLQESGPGLVKPSSETLSLTCTVSGGSIGHDYWSWIRQPPGEGLEWIGFIFFDGSTNYPNPSLNGRVTISLDTSKNQSL
RLTSVTAADTAVYFCARLKGAWLLSEPPYFSSDGMVDVWVGQTTVTVSSGGGSGGGSGGGSGGGSNFMLTQPPSASG
TPGQRVVISCSGSSSDIGSNTVNWYQQLPGTAPKLLIYSNNQRPSGVPDRFSGFKSGTSASLVISGLQSEDEADYYCAAW
DESLNGVVFGGKTVTL

FIGURE 6 (cont.)

DNA sequence of a variant of clone 15.150.12 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 28]:

CAGGTGCAGCTACAGCAGTGGGGCGCAGGACTGTTGAAGTCTTGGGGAACCCCTGTCCCTCACCTGCGCTGTCTCTGGTGCGTCGTTTAGTGGTtATTATTGGAGCTGGATCCGCCAGCCCCAGGgAAGGGGCTGGAGTGGATTGGGGAGATCAATCATC GTGGAAGCACTACCTACAACCCGTCCCTCGACGGTCGAGTCACCATATCATTAGACACATCTACCAACCAGATCTCCCTT AAAGTGACCTCTATGACCGCCGCGGACACGGCCGTGTATTACTGTGCGAGGACAGTGGCTGGTACTAGTGACTACTGGGG CCAGGGAACCCCTGGTCACCGTTTCCTCAGGGAGTGCATCCGCCCAACGGGCGGTGGTGGATCAGGCGGCGGAGGATCTG GCGGAGGTGGCAGCGGTGGTGGAGGCAGTGAAACGACACTCACGCAGTCTCCAGCATTTCATGTCAGCGACTCCAGGAGAC AAAGTCAGCATCTCCTGCAAAGCCAGCCGAGACGTTGATGATGATGTGAAC TGGTACCAACAGAGACCAGGAGAAGCTCc TATTTTcATTATTGAAGATGCTACTACTCTCGTTCcTGGAAATCTCACCTCGATTTCAGTGGCAGCGGGTATGGAACCGATT TTACCCTCACAATTAATAACATCGATTCTGAGGATGCTGCATATTATTTCTGTCTACAACATGATAATTTCCCGCTCACC TTTCGGCGGAGGGACCAAGGTGGAGATCAAA

Amino acid sequence of a variant of clone 15.150.12 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 29]:

QVQLQQWGAGLLKSWGTLSLTCAVSGASFSGYYWSWIRQPPGKGLEWIGEINHRGSTTYNPSLDGRVTISLDTSTNQISL KLTSMTAADTAVYYCARTVAGTSDYWGGQTLVTVSSGSASAPTGGGGSGGGSGGGSGGGGSETTLTQSPAFMSATPGD KVSISCKASRDVDDVDNWWYQQRPGEAPIFIIEDATTLVPGISPRFSGSGYGTDFTLTINNIDSEDAAYYFCLQHDNFPLT FGGGTKVEIK

DNA sequence of a variant of clone 15.150.24 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 30]:

CAGGTCACCTTGAAGGAGTCTGGTCCTACGCTGGTGAAACCCACACAGACCCTCACGCTGACCTGCACCTTCTCTGGGTI CTCACTCAGAACTACTGGAGAGGGTGTGGGCTGGGTCCGTACAGCCCCAGGAAAGGCCCTGGAATGGCTTGCACTCATT ATTGGGATGATGATAAGCGCTACAGCCCATCTCTGAAGAGCAGGCTCACCATCACCAAGGACACCTCCAAAAAGCAGGTG GTCTTACAATGACCAACGTGGACCCAGCGGACACAGCCACCTATTACTGTACACACGAGCAATACTATTATGATACTAG TGGTCAGCCATACTACTTTGACTTCTGGGGCCAGGGCACCCCTGGTCACCGTCTCCTCAGGCGGTGGTGGATCAGGCGGCG GAGGATCTGGCGGAGGTGGCAGCGGTGGTGGAGGCAGTAACATCCAGGTGACCCAGTCTCCATCCTCCCTGTCTGCATCT GTAGGAGACAGAGTCACCATGACTTGCCGGGCGAGTCAGGACATTAGGAAGAATTTAAATTGGTATCAGCAAAAACCAGG GAAAGCCCCCTAAGGTCTGATCTACGATGCATCCGATTGGAAACAGGGATCCCATCAAGGTTTCAGTGGAAGTGGATCTG GGACAGATTTTATCCTCACCATCAGCAGCCTGCAGCCTGAAGATATTGCAACATACTACTGTCAACAGTCTGATTATTTA CCGCTCACTTTTCGGCGGAGGGACCAAGTGGATATCAAA

Amino acid sequence of a variant of clone 15.150.24 scFv against loop 6 fragment of human CCR5 [SEQ ID NO: 31]:

QVTLKESGPTLVKPTQTLTLTCTFSGFSLRRTTGEVGVWVRQPPGKALEWLALIYWDDDKRYSPSLKSRLTITKDTSKKQV VLTMTNVDPADTATYYCTHEQYYYDTSQPPYFDWGGQTLVTVSSGGGGSGGGSGGGSGGGGSGGGGNIQVTQSPSSLAS VGDRTVMTCRASQDIRKLNWYQKPGKAPKVLIIYDASDLETGIPSRFSGSGSGTDFILTISSLQPEDIATYYCQQSDYL PLTFGGGTKVDIK

FIGURE 7

Amino acid sequence alignment of variants of selected scFv antibodies against loop 6 of human CCR5

V_H region:

```
15.150.11 QVQLQESGPGLVKPSSETLSLTCTVSGGSI--GHDYWSWIRQPPGEGLEWIGFIFPDGSTNNYPSLNGRVTISLDTSKNQLSLRLTSVTAADTAVYFCARLKGAWLLSEPPYPFSSDGMVDVWGQGTITVTVSS CDR3
15.150.12 QVQLQQWGAGLLKSWGTLISLTCAVSGASF--SGYYWSWIRQPPGKGLEWIGEIFNHRGSTTNNPSLDRVITISLDTSTNQISLKLTSNTAADTAVYVCART-----VAGTSDYWGQGTILVTVSS
15.150.24 QVTLAKESGPTLVKPTQTLLTCTFSGFSLRTTGEVGVWRQPPGKALEWLAIIYDDDDKRYSPSLKSLRLTITKDTSKRQVLTMTNVDPADTATYYCTHEQYYIDTSGQPY-----FDFWGGQGTILVTVSS
```

V_L region:

```
15.150.11 NFMLTOPPS-ASGTPGQRVSIKSCGSSS-DIGSNTVNWYQQLPGTAPKLLIYSNNQRPSGVDPRFSGFKSGTSASLIVISGLQSEDEADYYCAAWDESLNGVWVFGGGTKVTVL CDR3
15.150.12 ETTLTQSPAFMSATPGDKVSIKASR--DVDDD-VNMYQQRGEAFIFITIEDATTLVPGISPRFSGSGYGTDFITINNIDSEDAAYFCLQHDNF--PLTFGGGTKEIK
15.150.24 NIQVTQSPSSLSASVGDRVTMTCRASQ--DI-RKNLNWYQKPKGPKVLIYDASDLETGIPSRFSGSGSGTDFILTISSLQPEDIATYYCQSD-YL-PLTFGGGTKVDIK
```

FIGURE 8

Amino acid sequences of variable regions of clone 15.186.35 scFv against N-terminus fragment of human CCR5

V_H region [SEQ ID NO: 34]:

QVTLKESGPTLVKPTQTLTLTCTLSGFSLSSTSGVSVGWIRQPPGKALEWLASINWNDDKCYSPSLKSRLTITKDTKPNQV
VLAMSNMDPADTATYSCALDMPPHDSGPQSFSDASDVWGPMTMTVSS

V_L region [SEQ ID NO: 35]:

SYELMQLPVSVSPGQTASITCSGDNLDGYACWYQQKPGRSPVLVIYGDNKRPSGIPERFSGSNSGNTATLTISGTQAM
DEADYYCQAWDTSTAVFGTGTCLTVL

Partial amino acid sequences of variable regions of clone 15.150.11 scFv against loop 6 fragment of human CCR5

V_H region [SEQ ID NO: 36]:

QVQLQESGPGLVKPSETLSLTCTVSGGSIGHDYWSWIRQPPGEGLEWIGFIFFDGSTNYNPSLNGRVTISLDTSKNQLSL
RLTSVTAADTAVYFCARLKGAWLLSEPPYFSSDGMVWVGQGTTVTV

V_L region [SEQ ID NO: 37]:

NFMLTQPPSAXGTPGQRVSISSGSSSDIGSNTVNWYQQLPGTAPKLLIYSNNQRPSGVPDRFSGFKSGTSASLVISGLQ
SEADYYCAAWDESLNGVVFGGG

Partial amino acid sequences of variable regions of clone 15.150.12 scFv against loop 6 fragment of human CCR5

V_H region [SEQ ID NO: 38]:

QVQLQQWGAGLLKSWGTLSLTCAVSGASFSGYYWSWIRQPPGKLEWIGEINHRGSTTYNPSLDGRVTISLDTSTNQISL
KLTSMTAADTAVYYCARTVAGTSDYWGQGTTLTVSS

V_L region [SEQ ID NO: 39]:

TTLTQSPAFMSATPGDKVSISSKASRDVDDVNWYQQRPGGEAPIFIIEDATTLVPGISPRFSGSGYGTDFTLTINNIDS
EDAAYYFCLQHDNFPLTFGGGKVEIK

Amino acid sequences of variable regions of clone 15.150.24 scFv against loop 6 fragment of human CCR5

V_H region [SEQ ID NO: 40]:

QVTLKESGPTLVKPTQTLTLTCTFSGFSRLTTGEGVGWVRQPPGKALEWLALYWDKRYSPSLKSRLTITKDTSKKQV
VLTMTNVDPADTATYYCTHEQYYDTSGQPYFDFWVGQGTTLTVSS

V_L region [SEQ ID NO: 41]:

NIQVTQSPSSLSASVGDVMTTCRASQDIRKNLNWYQQKPGKAPKVLIIYDASDLETGIPSRFSGSGSGTDFILTISSLQP
EDIATYYCQSDYLPPLTFGGGKVDIK

FIGURE 9A

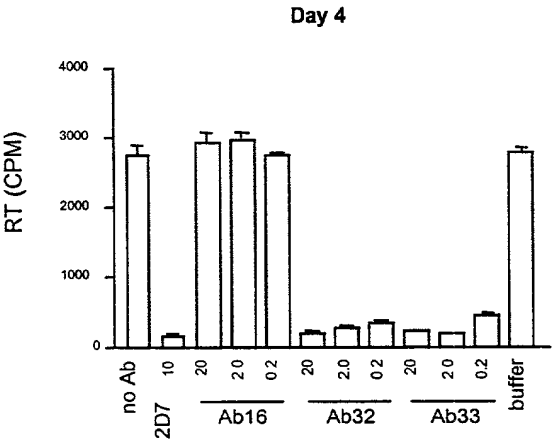


FIGURE 9B

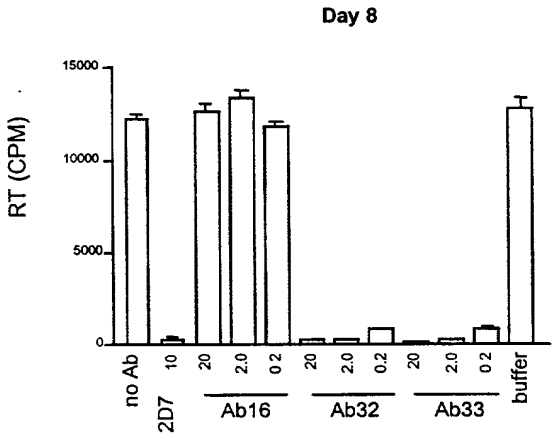


FIGURE 9C

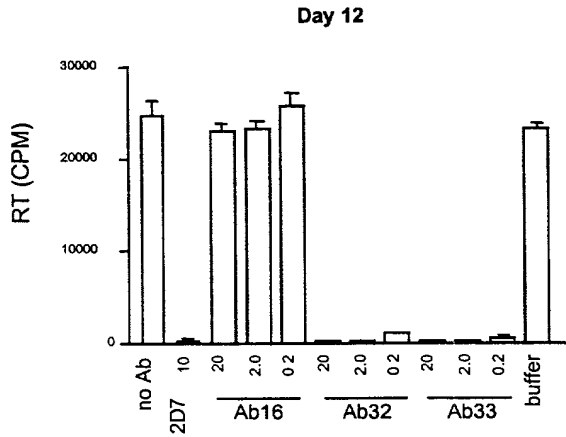


FIGURE 10A

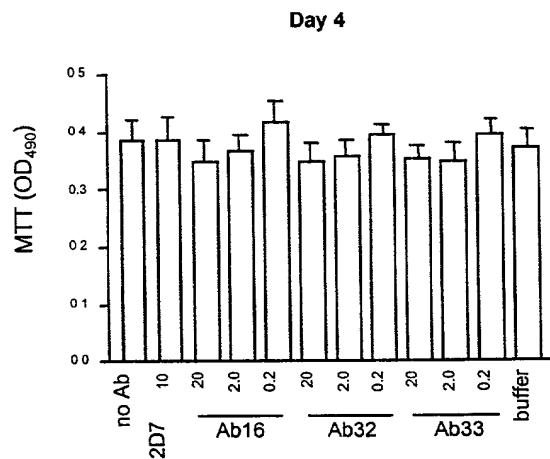


FIGURE 10B

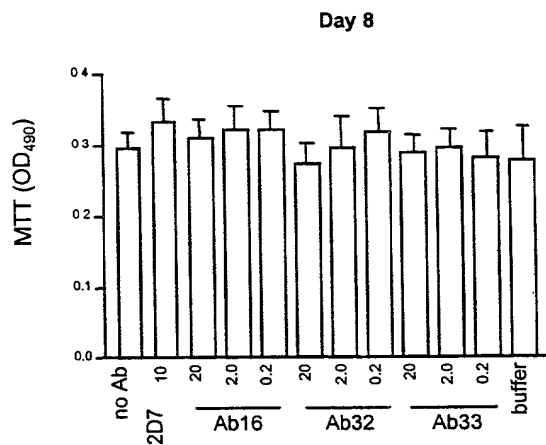


FIGURE 10C

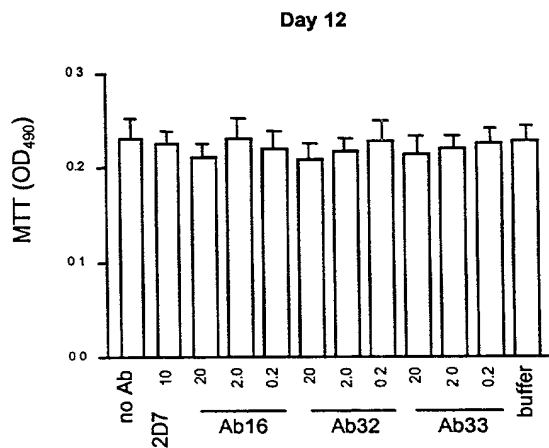


FIGURE 11A

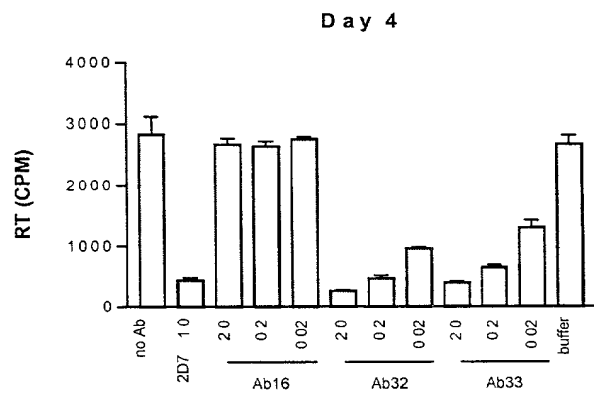


FIGURE 11B

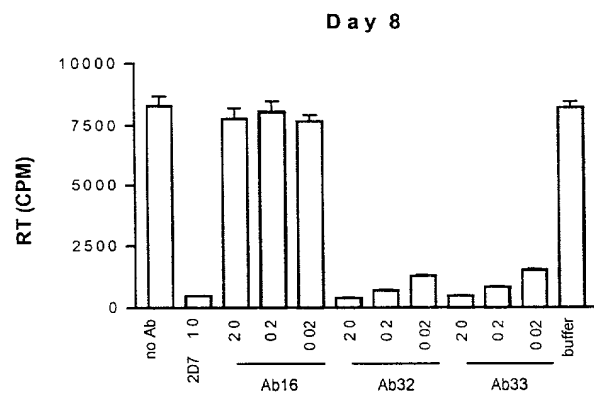


FIGURE 11C

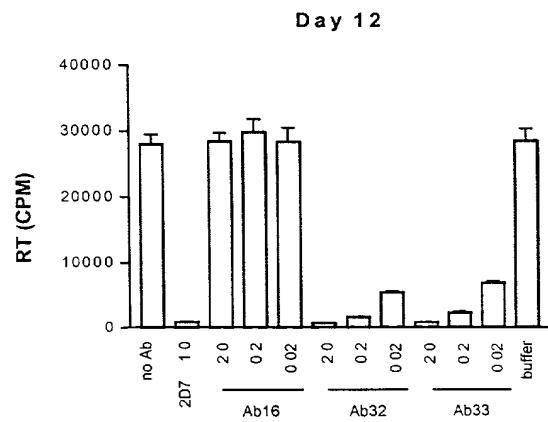


FIGURE 12

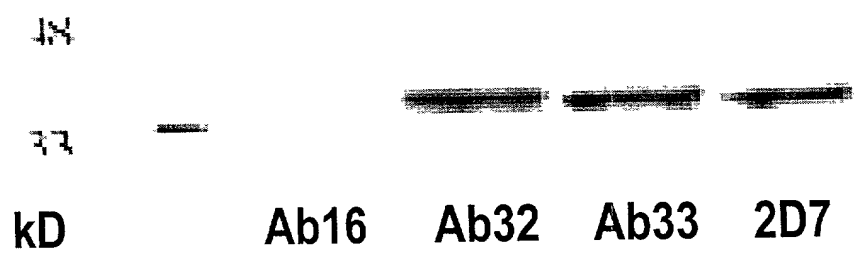


FIGURE 13

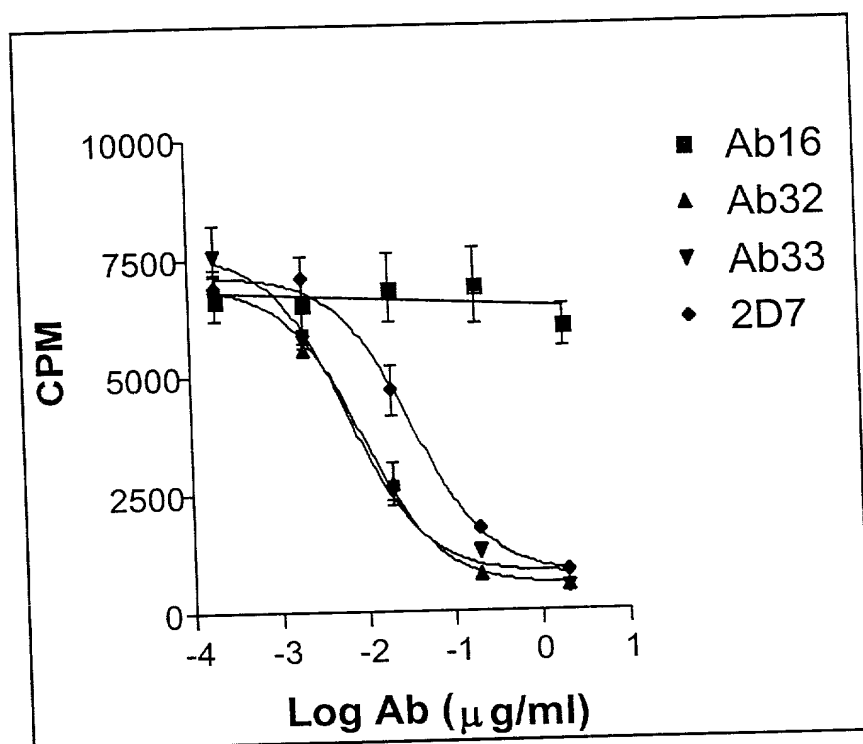


FIGURE 14

